

Cheng-Chi Tai

List of Publications by Year in descending order

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68
papers

417
citations

1040056

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g-index

68
all docs

68
docs citations

68
times ranked

372
citing authors

#	ARTICLE	IF	CITATIONS
1	Characterization of coatings on magnetic metal using the swept-frequency eddy current method. Review of Scientific Instruments, 2000, 71, 3161-3167.	1.3	39
2	Nondestructive Analysis of Interconnection in Two-Die BGA Using TDR. IEEE Transactions on Instrumentation and Measurement, 2006, 55, 400-405.	4.7	31
3	A NEW WIRELESS-TYPE PHYSIOLOGICAL SIGNAL MEASURING SYSTEM USING A PDA AND THE BLUETOOTH TECHNOLOGY. Biomedical Engineering - Applications, Basis and Communications, 2005, 17, 229-235.	0.6	30
4	AN IMPROVED AND PORTABLE EYE-BLINK DURATION DETECTION SYSTEM TO WARN OF DRIVER FATIGUE. Instrumentation Science and Technology, 2013, 41, 429-444.	1.8	30
5	Enhancement of wireless power transmission with foreign-object detection considerations. , 2017, , .		23
6	A New Wireless-Type Physiological Signal Measuring System Using a PDA and the Bluetooth Technology. , 2006, , .		16
7	Partial discharge signal extracting using the empirical mode decomposition with wavelet transform. , 2011, , .		16
8	Dispersed partial shading effect and reduced power loss in a PV array using a complementary SuDoKu puzzle topology. Energy Conversion and Management, 2021, 246, 114675.	9.2	15
9	The information home appliance control system- a bluetooth universal type remote controller. , 0, , .		14
10	Deep-Magnetic-Field Generator Using Flexible Laminated Copper for Thermotherapy Applications. IEEE Transactions on Magnetics, 2014, 50, 1-4.	2.1	13
11	ANFIS-GA system for three-dimensional pulse image of normal and string-like pulse in Chinese medicine using an improved contour analysis method. European Journal of Integrative Medicine, 2021, 42, 101301.	1.7	11
12	Modeling the surface condition of ferromagnetic metal by the swept-frequency eddy current method. IEEE Transactions on Magnetics, 2002, 38, 205-210.	2.1	9
13	Thickness and Conductivity Analysis of Molybdenum Thin Film in CIGS Solar Cells Using Resonant Electromagnetic Testing Method. IEEE Transactions on Magnetics, 2012, 48, 347-350.	2.1	9
14	Development and Testing of a Prototype for 3D Radial Pulse Image Measurement and Compatible With 1D Pulse Wave Analysis. IEEE Access, 2019, 7, 182846-182859.	4.2	9
15	Thermotherapy Induction Heating Apparatus With New Magnetic-Wrapped Coil Design. IEEE Transactions on Industrial Electronics, 2014, 61, 2592-2600.	7.9	8
16	Identification of Partial Discharge Location Using Probabilistic Neural Networks and the Fuzzy C-means Clustering Approach. Electric Power Components and Systems, 2014, 42, 60-69.	1.8	8
17	Bolt-Hole Corner Crack Inspection Using the Photoinductive Imaging Method. Journal of Nondestructive Evaluation, 2000, 19, 81-93.	2.4	7
18	The implementation of a bluetooth-based wireless phonocardio-diagnosis system. , 0, , .		7

#	ARTICLE	IF	CITATIONS
19	Design of a heart rate controller for treadmill exercise using a recurrent fuzzy neural network. Computer Methods and Programs in Biomedicine, 2016, 128, 27-39.	4.7	7
20	Robust Image-Based Water-Level Estimation Using Single-Camera Monitoring. IEEE Transactions on Instrumentation and Measurement, 2022, 71, 1-11.	4.7	7
21	Failure analysis of BGA package by a TDR approach. , 0, , .		6
22	Multiphysics Modeling and Analysis of the Photoinductive Imaging Effect for Crack Detection. IEEE Transactions on Instrumentation and Measurement, 2010, 59, 425-432.	4.7	6
23	A simple partial discharge detector for low-voltage rotating electrical machines. , 2007, , .		5
24	Design of wireless power transfer for dynamic power transmission with position-detection mechanism. , 2015, , .		5
25	Automatic water-level measurement system for confined-space applications. Review of Scientific Instruments, 2021, 92, 085001.	1.3	5
26	An Improved Peak Quantification Algorithm for Automatic Heart Rate Measurements. , 2005, 2005, 6623-6.		4
27	Design of AND and NAND Logic Gate Using NDR-BASED Circuit Suitable for CMOS Process. , 2006, , .		4
28	A COMPACT HALF-BRIDGE INDUCTION HEATING SYSTEM FOR MAGNETIC NANOPARTICLE THERMOTHERAPY APPLICATIONS. Biomedical Engineering - Applications, Basis and Communications, 2007, 19, 27-35.	0.6	4
29	Detection and location of partial discharge in cast-resin dry-type transformers using a waveguide and a new acoustic emission sensor pair design. Journal of Zhejiang University: Science C, 2011, 12, 345-350.	0.7	4
30	The application of partial discharge detector and electro-acoustic signals analysis methods for power cables monitoring. , 2012, , .		4
31	Magnetic induction of hyperthermia by a modified self-learning fuzzy temperature controller. Review of Scientific Instruments, 2017, 88, 074702.	1.3	4
32	Analyzing the audio signals of degenerative arthritis with an electronic stethoscope. Review of Scientific Instruments, 2018, 89, 085111.	1.3	4
33	Fourier Series Analysis for Novel Spatiotemporal Pulse Waves: Normal, Taut, and Slippery Pulse Images. Evidence-based Complementary and Alternative Medicine, 2019, 2019, 1-9.	1.2	4
34	Wireless potential difference electrocardiogram constituted by two electrode-pairs wearing comfort. Journal of Instrumentation, 2020, 15, P08011-P08011.	1.2	4
35	Effects of Flexible Induction Coil Pitch on the Heating Performance of Thermotherapy Needles. IEEE Transactions on Instrumentation and Measurement, 2020, 69, 8983-8991.	4.7	4
36	A wireless bluetooth device applied to a non-contact type breathing monitoring system. , 2004, , .		3

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37	Partial discharge signal analysis using HHT for cast-resin dry-type transformer. , 2008, , .		3
38	Real-Time Prediction of Temperature for Electromagnetic Heating Therapy in Deep-Seated Tissue. IEEE Transactions on Magnetics, 2016, 52, 1-4.	2.1	3
39	Compensated active noise cancellation earphone for audiometric screening tests in noisy environments. International Journal of Audiology, 2019, 58, 747-753.	1.7	3
40	Two-electrode-pair electrocardiogram with no common ground between two pairs. Review of Scientific Instruments, 2019, 90, 114703.	1.3	3
41	A modified self-tuning fuzzy logic temperature controller for metal induction heating. Review of Scientific Instruments, 2020, 91, 064905.	1.3	3
42	Standard BiCMOS Implementation of a Two-Peak Negative Differential Resistance Circuit with High and Adjustable Peak-to-Valley Current Ratio. IEICE Transactions on Electronics, 2009, E92-C, 635-638.	0.6	3
43	Cross-Channel Dynamic Weighting RPCA: A De-Noising Algorithm for Multi-Channel Arterial Pulse Signal. Applied Sciences (Switzerland), 2022, 12, 2931.	2.5	3
44	The Design of a Portable ECG Measurement Instrument Based on a GBA Embedded System. , 2006, , .		2
45	Subjective mood estimation using power energy of EEG frequency band. , 2013, , .		2
46	Interference Reduction by Using RPCA and Variational Mode Decomposition in 3D Pulse Images. , 2019, , .		2
47	De-noising of 3D Pulse Images by Channel-Weighted Robust Principal Component Analysis. , 2019, , .		2
48	Pulsed eddy current for deep metal surface cracks inspection. AIP Conference Proceedings, 2001, , .	0.4	1
49	Pulsed eddy current for metal surface cracks inspection: Theory and experiment. AIP Conference Proceedings, 2002, , .	0.4	1
50	Data Analysis Using Hilbert-Huang Transform for Partial Discharge in Low Voltage Motors. , 2007, , .		1
51	A Novel Multiphysics Sensoring Method Based on Thermal and EC Techniques and Its Application for Crack Inspection. , 2008, , .		1
52	GIS partial discharge examination and classification from the on-line measurements. , 2008, , .		1
53	The transmission characteristics of sound wave in power cable. , 2008, , .		1
54	An operating procedure for the detection, identification, and location of partial discharge in cast-resin dry-type transformers. , 2011, , .		1

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55	A calculation for complex eye-blink duration by regression. , 2013, , .		1
56	DESIGN OF A RING-TYPE REFLECTION PULSE OXIMETER WITH A PARABOLIC REFLECTOR. Biomedical Engineering - Applications, Basis and Communications, 2015, 27, 1550007.	0.6	1
57	ADAPTIVE BEAMFORMER WITH COMBINATION OF SUBBAND FILTERING FOR HEARING-AID SYSTEMS BACKGROUND NOISE REDUCTION. Biomedical Engineering - Applications, Basis and Communications, 2002, 14, 55-66.	0.6	0
58	The interaction of pulsed eddy current with metal surface crack for various coils. AIP Conference Proceedings, 2002, , .	0.4	0
59	Selectively multiple-valued memory design using negative differential resistance circuits implemented by standard SiGe BiCMOS process. , 2008, , .		0
60	Frequency divider design using the combination of transistors and passive devices. , 2009, , .		0
61	Multiple-Valued Memory Design by Standard BiCMOS Technique. , 2009, , .		0
62	Cast-resin dry-type transformer partial discharge signal analysis using spectral correlated empirical mode decomposition method. , 2013, , .		0
63	THE EFFECTS OF EMISSION LIGHT PULSE WIDTH ON NON INVASIVE OPTICAL PLETHYSMOGRAPHIC DEVICES. Instrumentation Science and Technology, 2014, 42, 522-531.	1.8	0
64	Non-invasive multiwavelength photoplethysmography under low partial pressure of oxygen. Journal of Medical Engineering and Technology, 2016, 40, 315-324.	1.4	0
65	Benefits of Compression Amplification in Telephone Bluetooth-Assistive Listening Devices for People with Hearing Loss. Journal of the American Academy of Audiology, 2018, 30, 187-197.	0.7	0
66	Identification of Edge Recombination from CIGS Solar Cells. , 2019, , .		0
67	Electrical Characterization of FCBGA Package Based on Measurement Approach for High-speed SOC Applications. Journal of Microelectronics and Electronic Packaging, 2006, 3, 216-225.	0.7	0
68	Liver tumor ablation enhancement by induction-heating system with bitter-like deep magnetic field coil. Review of Scientific Instruments, 2022, 93, 054107.	1.3	0